

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319353

Luminaire Tested: **GAN-SA9A-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40813 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

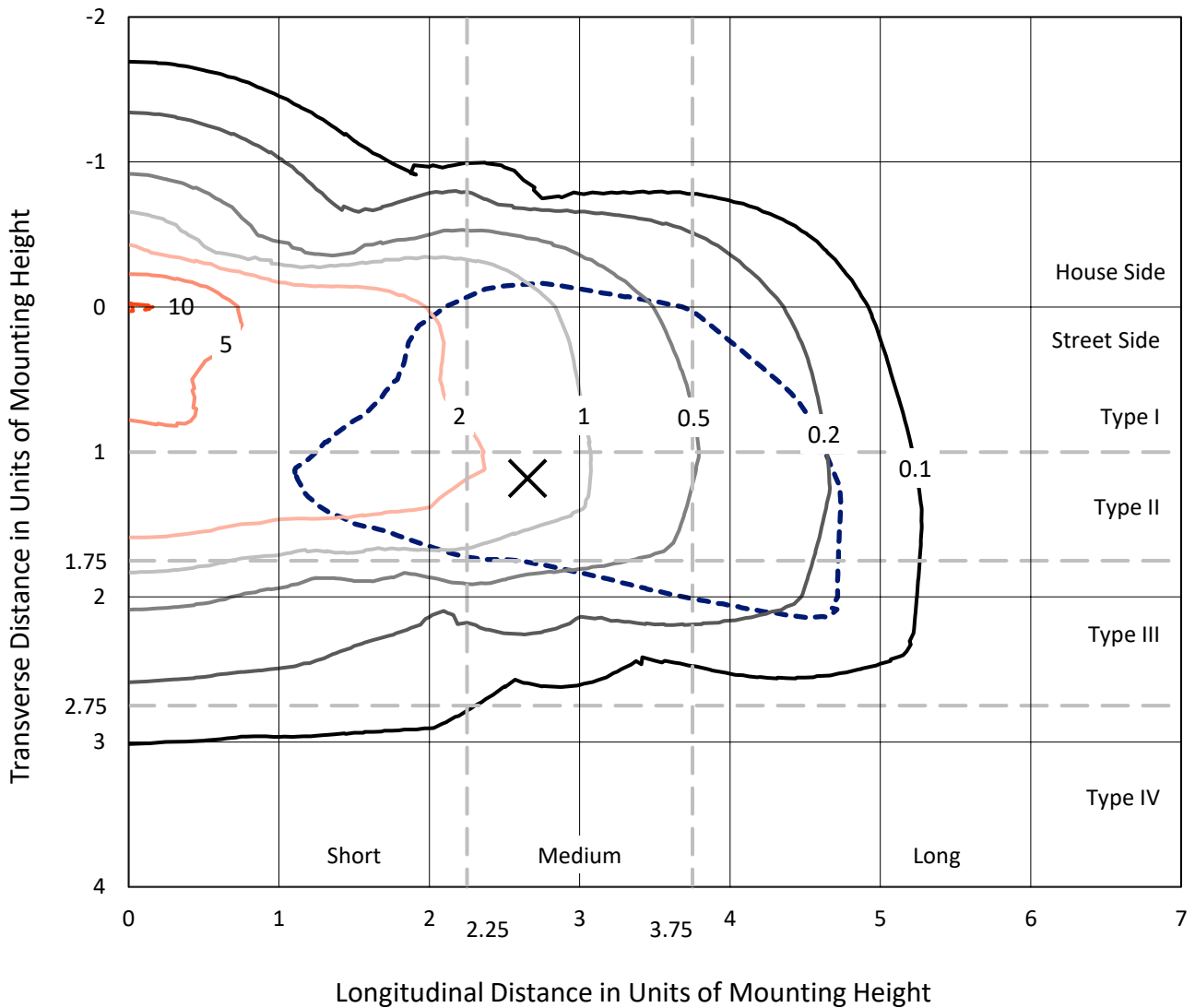
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

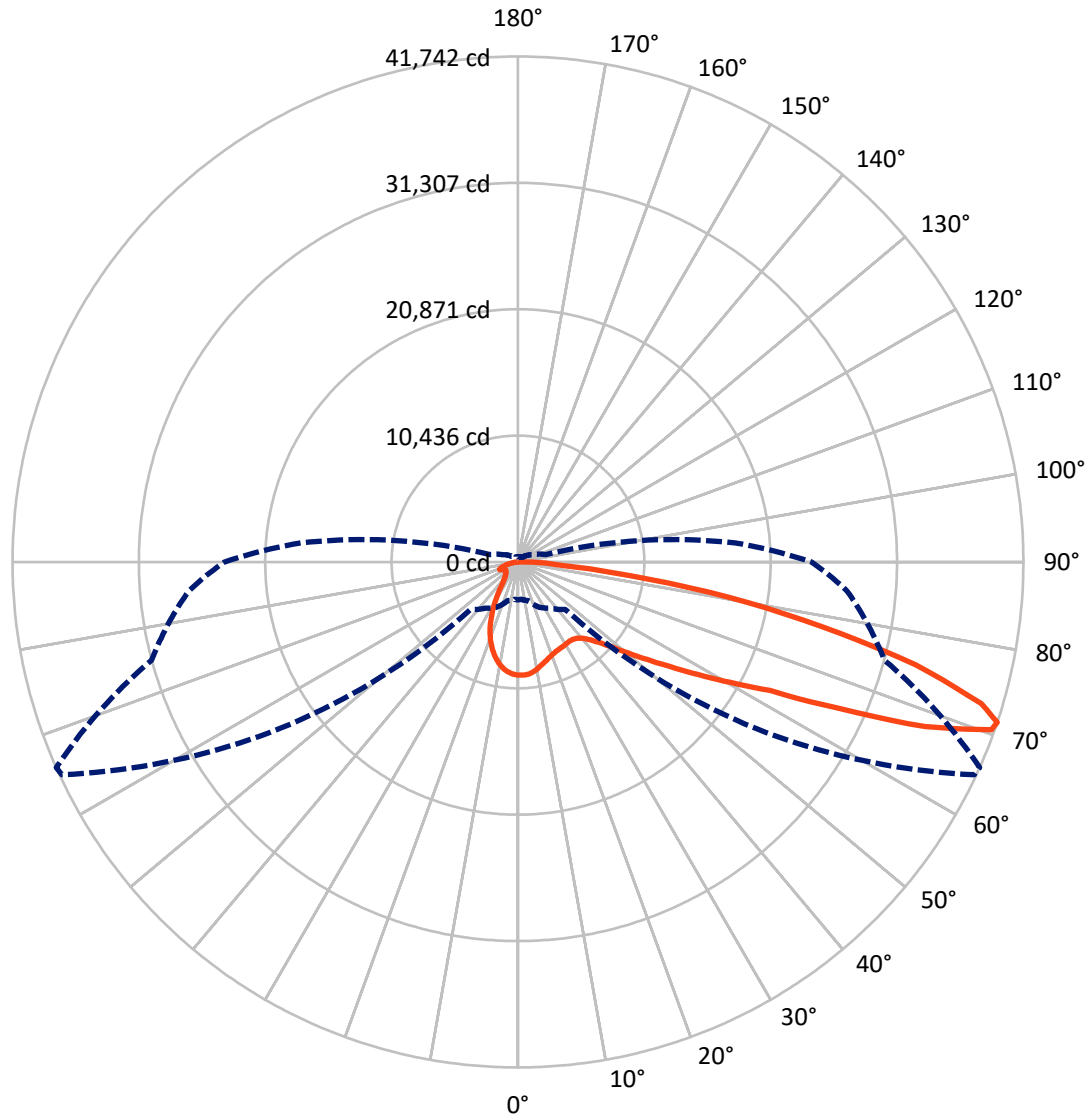
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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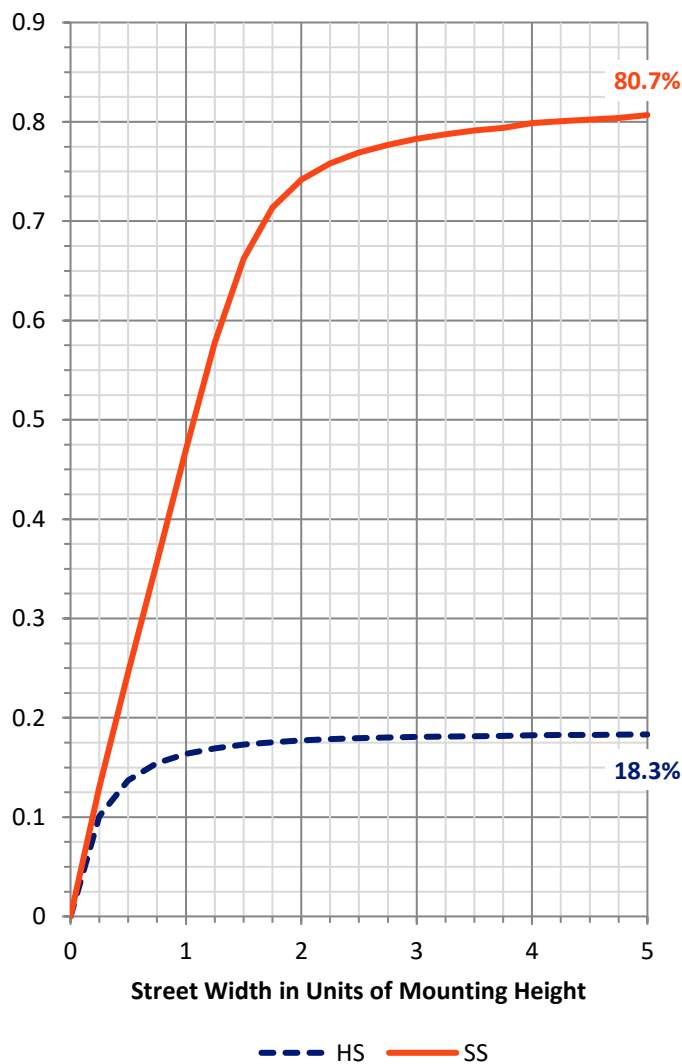
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7563.8	0.0	7563.8
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	33249.2	0.0	33249.2
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	40813.0	0.0	40813.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	823.0	2.0
10°-20°	1973.9	4.8
20°-30°	2651.4	6.5
30°-40°	3487.8	8.5
40°-50°	5073.9	12.4
50°-60°	7926.0	19.4
60°-70°	9928.6	24.3
70°-80°	7573.3	18.6
80°-90°	1375.2	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	40813.0	100.0
0°-180°	40813.0	100.0

**Coefficient of Utilization**



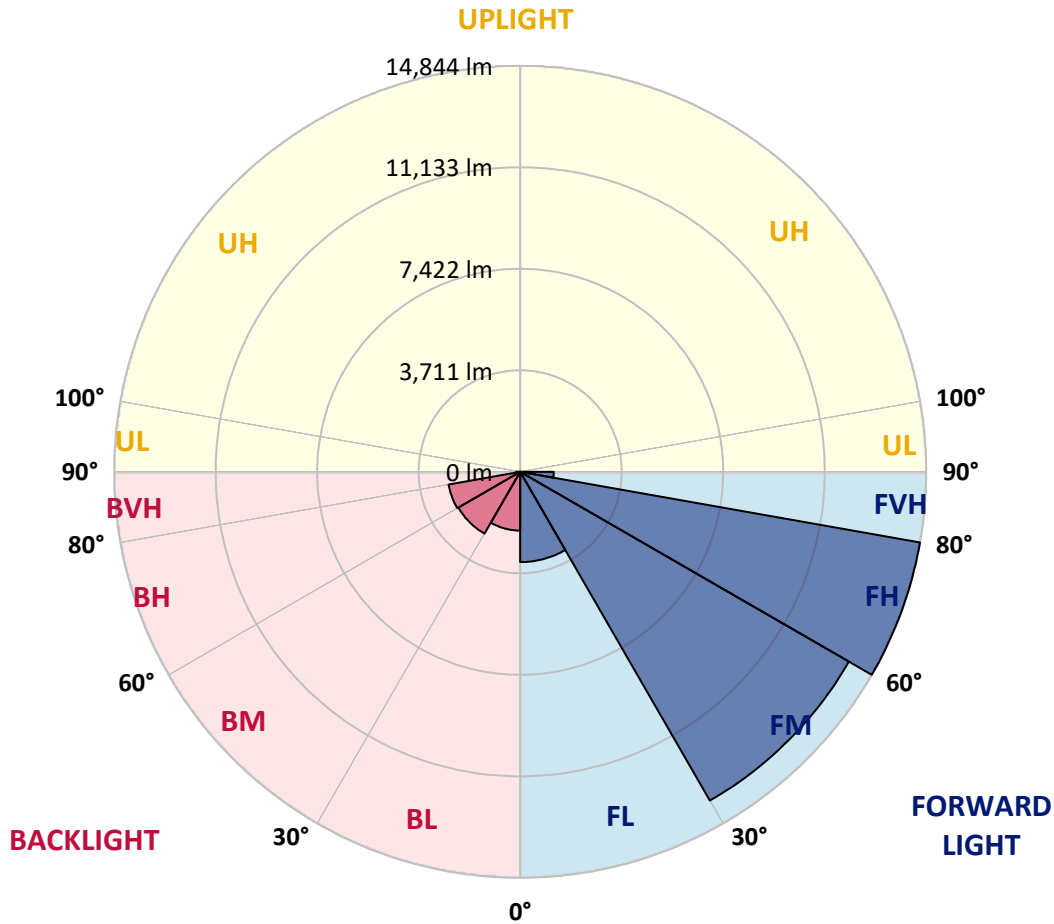
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3300.3	8.1			
FM (30°-60°)	13878.5	34.0			
FH (60°-80°)	14844.1	36.4			G5
FVH (80°-90°)	1226.4	3.0			G5
BL (0°-30°)	2147.9	5.3	B3/2500		
BM (30°-60°)	2609.3	6.4	B3/5000		
BH (60°-80°)	2657.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	148.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5
2.5°	9176.1	9162.1	9204.3	9248.0	9264.9	9293.1	9335.4	9359.3	9357.9	9362.2	9348.1
5°	8567.4	8549.1	8633.6	8702.7	8835.1	8984.5	9166.3	9295.9	9298.7	9372.0	9391.7
7.5°	7991.1	7978.4	8075.6	8186.9	8340.5	8568.8	8863.3	9142.3	9159.2	9357.9	9427.0
10°	7528.9	7526.1	7620.5	7741.7	7920.6	8175.7	8513.9	8922.5	8947.9	9290.3	9432.6
12.5°	7168.2	7173.8	7255.5	7393.6	7582.4	7848.8	8215.1	8675.9	8716.8	9183.2	9400.2
15°	6901.8	6924.4	6990.6	7130.1	7316.1	7586.7	7962.9	8447.6	8509.6	9063.4	9381.9
17.5°	6749.7	6775.0	6821.5	6937.1	7111.8	7372.5	7729.0	8260.2	8316.6	8971.8	9383.3
20°	6704.6	6725.7	6752.5	6822.9	6970.9	7207.6	7544.4	8091.1	8151.7	8898.6	9397.4
22.5°	6793.3	6808.8	6811.7	6806.0	6896.2	7089.3	7410.5	7967.1	8031.9	8850.6	9407.2
25°	6983.6	7004.7	6989.2	6937.1	6907.5	7025.8	7341.5	7885.4	7950.2	8815.4	9387.5
27.5°	7269.6	7272.4	7259.8	7192.1	7052.6	7032.9	7320.3	7837.5	7899.5	8774.5	9346.6
30°	7658.5	7676.9	7654.3	7562.7	7334.4	7145.6	7345.7	7791.0	7847.4	8722.4	9280.4
32.5°	8113.7	8158.8	8157.4	8061.5	7734.6	7397.8	7450.0	7762.8	7806.5	8667.5	9200.1
35°	8585.7	8647.7	8763.3	8722.4	8318.0	7796.6	7650.1	7807.9	7837.5	8660.4	9143.7
37.5°	9076.1	9138.1	9376.2	9486.2	9012.7	8367.3	7965.7	7967.1	7981.2	8746.4	9139.5
40°	9589.0	9655.2	10013.2	10299.2	9913.1	9090.2	8474.4	8299.7	8284.2	8957.7	9222.6
42.5°	10307.7	10366.8	10796.6	11161.6	10912.2	10016.0	9177.6	8812.6	8780.2	9372.0	9489.0
45°	11216.5	11267.3	11723.8	12114.1	11985.9	11072.8	10061.1	9518.6	9512.9	10062.5	10028.7
47.5°	12297.3	12336.8	12746.8	13124.5	13171.0	12288.9	11171.5	10607.8	10516.2	11009.4	10864.3
50°	13423.2	13466.9	13745.9	14151.7	14497.0	13916.4	12600.3	11942.2	11819.6	12259.3	12047.9
52.5°	14168.6	14226.4	14468.8	14983.1	15987.8	15700.3	14289.8	13559.9	13373.9	13774.1	13612.0
55°	13836.1	13965.7	14336.3	15160.7	17179.9	18425.6	16373.9	15446.7	15236.7	15569.3	15473.5
57.5°	12324.1	12501.7	13007.5	14280.0	17347.6	20826.7	19524.7	17668.9	17520.9	17425.1	17468.8
60°	9560.8	9731.3	10358.4	12016.9	16179.4	22579.6	24266.3	20408.2	20194.0	19287.9	19327.4
62.5°	6766.6	6680.6	7110.4	8323.6	13147.0	22785.4	29661.8	24071.9	23367.3	21255.1	21081.7
65°	5160.2	5140.4	5333.5	5719.6	7962.9	20323.6	32876.0	30229.7	29129.2	23568.8	23160.2
67.5°	4240.0	4204.8	4395.0	4957.3	5127.8	13111.8	32946.5	37373.9	36293.1	26449.1	25564.1
70°	3486.1	3446.7	3624.2	4349.9	4738.8	6649.6	27728.5	41557.6	41499.8	30095.8	27379.1
71°	3125.4	3097.2	3310.0	4116.0	4655.7	5542.0	23940.8	41568.8	41742.2	31330.2	27272.0
72.5°	2544.9	2554.7	2780.2	3663.7	4593.7	4893.9	17595.6	39631.3	39997.7	32506.8	26298.3
75°	1690.9	1699.4	1995.3	2818.2	4454.2	4788.2	9670.7	33255.1	33928.6	31802.3	23997.2
77.5°	1135.7	1132.9	1334.4	1933.3	3880.7	4788.2	5670.3	24872.3	25612.0	25304.9	18500.3
80°	782.1	776.4	918.7	1334.4	2938.0	4845.9	4383.8	17430.7	17654.8	13665.6	7519.0
82.5°	479.1	483.3	600.3	942.7	1999.5	4361.2	4138.6	9504.5	9260.7	3832.8	1878.3
85°	274.8	273.4	383.3	638.3	1283.7	3680.6	4035.7	4090.7	3752.5	1154.1	679.2
87.5°	98.6	105.7	205.7	353.7	735.6	2563.2	3424.1	2127.8	1917.8	521.4	307.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5	9349.5
2.5°	9338.2	9346.6	9336.8	9280.4	9232.5	9155.0	9111.3	9050.7	9032.4	9024.0	9046.5
5°	9373.4	9376.2	9293.1	9145.1	8978.9	8783.0	8642.1	8468.8	8387.0	8351.8	8374.4
7.5°	9405.8	9393.2	9211.4	8928.1	8621.0	8280.0	7977.0	7699.4	7537.3	7471.1	7476.8
10°	9410.1	9356.5	9064.8	8626.6	8150.3	7650.1	7185.1	6756.7	6486.1	6310.0	6363.6
12.5°	9366.4	9276.2	8849.2	8236.3	7575.4	6893.4	6264.9	5622.4	5236.3	5057.3	5062.9
15°	9332.6	9169.1	8584.3	7776.9	6889.2	5985.9	5127.8	4372.5	3961.0	3777.8	3691.9
17.5°	9304.4	9053.6	8277.1	7259.8	6078.9	4933.3	3901.8	3228.3	3002.8	2949.3	2926.7
20°	9264.9	8931.0	7934.7	6660.9	5155.9	3755.3	2849.2	2516.7	2518.1	2580.1	2588.5
22.5°	9210.0	8791.5	7569.8	5988.7	4165.3	2735.1	2233.4	2137.6	2234.9	2353.2	2374.4
25°	9128.2	8626.6	7163.9	5246.1	3176.1	2102.4	1907.9	1903.7	2022.1	2146.1	2164.4
27.5°	9012.7	8411.0	6713.0	4448.6	2340.5	1786.8	1709.3	1738.8	1826.2	1916.4	1923.4
30°	8857.7	8160.2	6215.6	3607.3	1834.7	1590.9	1582.4	1609.2	1662.8	1726.2	1731.8
32.5°	8687.2	7905.1	5684.4	2792.9	1571.2	1485.2	1493.7	1506.3	1531.7	1557.1	1562.7
35°	8532.2	7644.4	5140.4	2122.1	1445.8	1416.2	1410.5	1407.7	1410.5	1402.1	1403.5
37.5°	8432.1	7428.8	4574.0	1689.5	1373.9	1355.6	1338.7	1317.5	1293.6	1279.5	1282.3
40°	8395.5	7268.2	4000.5	1459.8	1314.7	1302.0	1269.6	1224.5	1196.3	1187.9	1187.9
42.5°	8494.1	7185.1	3446.7	1344.3	1265.4	1244.2	1190.7	1138.6	1117.4	1116.0	1114.6
45°	8795.7	7218.9	2919.7	1280.9	1220.3	1179.4	1109.0	1065.3	1051.2	1054.0	1052.6
47.5°	9336.8	7431.7	2468.8	1238.6	1175.2	1121.7	1042.7	1007.5	990.6	990.6	992.0
50°	10256.9	7929.1	2109.4	1203.4	1137.2	1068.1	994.8	951.2	928.6	927.2	927.2
52.5°	11597.0	8819.6	1885.4	1173.8	1094.9	1020.2	946.9	892.0	865.2	859.6	856.7
55°	13276.7	10096.3	1823.4	1154.1	1038.5	968.1	889.2	834.2	804.6	791.9	790.5
57.5°	15155.0	11649.1	1946.0	1130.1	980.7	906.1	825.7	773.6	742.6	727.1	725.7
60°	17055.9	13344.3	2446.2	1096.3	932.8	838.4	760.9	713.0	682.0	665.1	662.3
62.5°	18959.6	15131.1	3467.8	1093.5	899.0	773.6	694.7	653.8	624.2	605.9	601.7
65°	21107.1	17086.9	4628.9	1168.2	887.7	714.4	627.1	594.6	569.3	552.4	551.0
67.5°	23573.1	19295.0	4517.6	1321.7	925.8	660.9	563.6	538.3	520.0	505.9	504.5
70°	24729.9	18949.8	2808.4	1430.3	979.3	608.7	503.1	484.7	470.6	460.8	456.6
71°	24245.2	17993.0	2354.6	1417.6	973.7	586.2	479.1	465.0	450.9	442.5	438.2
72.5°	22923.5	16409.1	1964.3	1318.9	910.3	545.3	448.1	434.0	421.3	411.5	408.6
75°	20570.2	14654.8	1572.6	1054.0	725.7	460.8	393.1	377.6	367.8	362.1	356.5
77.5°	15121.2	10458.4	1216.1	832.8	534.1	376.2	335.4	324.1	314.2	305.8	301.6
80°	5792.9	4051.2	818.7	621.4	391.7	297.3	270.5	264.9	255.0	249.4	249.4
82.5°	1559.9	1210.4	436.8	376.2	262.1	217.0	207.1	204.3	195.9	184.6	186.0
85°	631.3	534.1	245.2	207.1	160.6	128.2	139.5	140.9	131.0	117.0	118.4
87.5°	277.6	226.9	136.7	91.6	70.5	49.3	63.4	63.4	57.8	47.9	43.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)